

CLAIMS

1. Computer code generator starting from a specifications file, characterized in that it comprises at least:

- 5 - one front end (FE) that creates an intermediate file (6) by a grammatical and syntactical analysis of the specifications file (4), the intermediate file comprising a syntactical tree (20, 30) describing data in the specifications file (4), all data extracted from this file (4) by front end (FE) being associated with a node
- 10 (21, 22, 23, 24, 25, 26) in the tree;
- a Template (3) defining programming rules associated with each node, as a function of the code to be generated (7);
- a back end (BE) generating the output code (7) by reading the intermediate file (6) and the syntactical tree.

15 2. Generator according to claim 1, characterized in that the front end (FE) reads a file (5) describing the grammar of the specifications file (4) language.

20 3. Generator according to either of the previous claims, characterized in that the front end (FE) breaks down the specifications file (4) into software elements (21, 22, 23, 24, 25, 26) forming the nodes of the syntactical tree, according to a functional tree structure conform with the specifications file (4), the software elements being data extracted from this

25 file (4).

 4. Generator according to any one of the previous claims, characterized in that the Template (3) comprises output code programming rules (7) associated with each software element of a node, a rule and the

30 manner in which this rule is applied being associated with each node.

 5. Generator according to any one of the previous claims, characterized in that the software elements associated with the nodes are interfaces, variables, constants, operations and logical or mathematical

35 functions.

6. Generator according to any one of the previous claims, characterized in that the output code (7) is a computer language.